



ARMY POSITION DESCRIPTION

PD#: GJ00450	Sequence#: VARIES	Replaces PD#: GJ8521A
CIVIL ENGINEER (GEOTECHNICAL) GS-0810-11		
Organization Title:		
POSITION LOCATION:		
Servicing CPAC: GREAT LAKES AND OHIO RIVER DIVISION CPAC Installation: VARIES Region: SOUTHWEST		Agency: VARIES Army Command: VARIES Command Code: VARIES
POSITION CLASSIFICATION STANDARDS USED IN CLASSIFYING/GRADING POSITION:		
Citation 1: OPM JFS PROF WORK ENG & ARCHITECTURE GROUP, NOV 2008		
Supervisory Certification: <i>I certify that this is an accurate statement of the major duties and responsibilities of this position and its organizational relationships, and that the position is necessary to carry out Government functions for which I am responsible. This certification is made with the knowledge that this information is to be used for statutory purposes relating to appointment and payment of public funds, and that false or misleading statements may constitute violations of such statutes or their implementing regulations.</i>		
Supervisor Name: JEFFREY E. FRITZ		Reviewed Date: 06/24/2020
Classification Review: <i>This position has been classified/graded as required by Title 5, U.S. Code in conformance with standard published by the U.S. Office of Personnel Management or if no published standards apply directly, consistently with the most applicable published standards.</i>		
Reviewed By: PAT WHITE		Reviewed Date: 09/28/1981
POSITION INFORMATION: Cyber Workforce: <ul style="list-style-type: none"> Primary Work Role: VARIES Additional Work Role 1: VARIES Additional Work Role 2: VARIES FLSA: EXEMPT FLSA Worksheet: EXEMPT FLSA Appeal: NO Bus Code: VARIES	CONDITION OF EMPLOYMENT: Drug Test Required: VARIES Financial Mgmt Cert: Position Designation: VARIES Position Sensitivity: VARIES Sec. Clearance Level: VARIES Sec. Access (Child Care Bkgd Check): VARIES Emergency Essential:	POSITION ASSIGNMENT: Competitive Area: VARIES Competitive Level: VARIES Career Program: VARIES Career Ladder PD: YES Target Grade/FPL: 11 Career Pos 1: GJ292608 GS-0810-09 Career Pos 2: GJ460088 GS-0810-07 Career Pos 3: GJ460089

DCIPS PD: NO <ul style="list-style-type: none"> • Mission Category: VARIES • Work Category: VARIES • Work Level: VARIES Acquisition Position: NO <ul style="list-style-type: none"> • CAP: • Career Category: • Career Level: Functional Code: 21 Interdisciplinary: NO Supervisor Status: VARIES PD Status: VERIFIED	Requires Access to Firearms: VARIES Personnel Reliability Position: VARIES Information Assurance: VARIES Influenza Vaccination: NO Financial Disclosure: VARIES Financial Disclosure: NO Enterprise Position: VARIES	GS-0810-05 Career Pos 4: Career Pos 5: Career Pos 6:
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POSITION DUTIES:

CL: 0BH0

NOTE: THIS IS A LAKES & RIVERS DIVISION (LRD) STANDARDIZED POSITION DESCRIPTION (PD). CHANGES TO THIS PD REQUIRE APPROVAL OF THE LRD PROGRAMS DIRECTOR, WITH COORDINATION FIRST THROUGH THE LRD CPAC DIRECTOR, THEN THROUGH THE LRD ENGINEERING CHIEF.

MAJOR DUTIES

1. The incumbent is assigned any phase of or a complete project in connection with the study of the foundations aggregates or soil to be used and the method of handling or placing such materials in the construction of structures such as earth dams and levees, concrete floodwalls and drainage structures, concrete outlet work for flood control projects, concrete locks for navigation purposes, concrete dams airfield runways, taxiways, roads, and various types of single and multi-storied buildings and appurtenant utilities. Considers construction practices and procedures, hydraulic problems, and other allied factors which might affect the total project as well as the specific project and foundation involved.

a. Develops soil load diagrams for pumping plants, retaining walls, floodwalls, flood control dams, navigation locks and other structures which indicate the load per square foot that the soil at the site will carry or that the soil will exert on the structure based on factors such as the type of soil, depth, water content, and specific gravity.

b. Determines the scope of and the foundation stability of levees and earth dams as determined from the type and condition of soil on which the structure will rest, rock and soil conditions in adjacent areas, height to which levee or dam is to be erected, type and conditions of soil to be used in constructing the item, the amount of seepage anticipated and methods which could be used to control such seepage and economic considerations.

c. Taking into consideration of the strength of soil foundations under proposed airfield runways as well as the anticipated loading configuration and intensity according to the use for which intended, the incumbent determines the type and thickness of the base special treatment to be given soil bearing the load, thickness of base course or bituminous concrete and the thickness of the wearing surface required to meet existing and expected conditions.

d. Checks the size, shape and type of foundation designs submitted by Architect-Engineer firms to insure adequacy from a shear standpoint and still maintain the tolerable amount of settlement depending upon stability and strength of soil foundations involved.

e. Supervises and participates in determining the type of and location of soil samples needed for a specific job and requests the appropriate laboratory tests. Advises Chief of field section and field

personnel in the classification of various types of soils.

f. Reviews plans and specifications prepared by A.E. and in-house forces covering civilian and military projects for soil and foundation features. This review is for sufficiency, practicability, and compliance with established policies. Prepares written resumes of discrepancies and makes recommendations for changes and/or modifications.

75%

2. During course of construction conducts foundation studies involving varying soil conditions for the purpose of determining whether the strength and consolidation characteristics being built into a soil structure are commensurate with those assumed in the design. Works on assigned portions of such jobs as airfields, utilities, floodwalls, levees, earth dams, and drainage structures. Taking into consideration such factors as purpose of the project, type of soil, water content, specific gravity, capabilities of construction equipment, and effect-of construction methods, recommends changes in design and the type of materials to use and location of suitable borrow areas, and settlement to expect. Directs the obtaining of representative record samples and conducts on-the-job tests and/or forwards to laboratory for testing.

25%

Performs other duties as assigned.

Factor 1 Knowledge Required by the Position Level 1-7 1250 points

Professional knowledge of, and skill in applying, a wide range of engineering theories, concepts, principles, standards and methodology sufficient to:

Apply standard industry and sound engineering practices as well as standardized metrics such as condition, probability of failure, and risk and reliability into the asset management process to achieve a credible, quantifiable tool to evaluate and communicate condition related risks and impacts with respect to project reliability. Uses commonly available computer applications to gather and analyze data.

Factor 2 Supervisory Controls Level 2-4 450 points

The supervisor assigns work in terms of overall objectives and available resources. The incumbent plans and carries out assignments independently, resolving most conflicts independently. Keeps the supervisor informed of progress and potential problems, concerns or controversial matters. Work is regularly reviewed by senior engineers for accuracy and overall results.

Factor 3 Guidelines Level 3-3 275 points

Guidelines include a wide variety of Technical Manuals, engineering handbooks and references, manufacturer publications, professional periodicals, plans and material specifications, to include precedents. These guidelines are not always applicable to the work and may have gaps. Incumbent independently considers precedents and use judgment to research, analyze, select, modify and apply available guidelines to specific problems or issues.

Factor 4 Complexity Level 4-4 225 points

Work consists of a wide variety of assignments involving different and unrelated engineering processes and methods. Employee makes decisions on what is to be done by researching, analyzing, and evaluating information, uncommon problems, issues, and circumstances. Employee must consider conflicting information and alternatives while determining the most efficient and effective solutions to requirements of the project. The employee must utilize judgment in planning and prioritizing work; devising, recommending and justifying changes; and modifying or revising policies, precedents and techniques.

Factor 5 Scope and Effect Level 5-3 150 points

Scope of work typically includes investigating, evaluating, and solving problems with conventional and established conditions; providing consultant and technical services to a variety of customers

with a range of problems. Work results affect the planning and development of work projects and the evaluation of contractor work efforts for conformance with project documents. Work products affect the organization's ability to accomplish work to meet the needs of customers.

Factor 6 Personal Contacts, and Factor 7 Purpose of Contacts Level 3c 180 points

Work involves contact with individuals from outside the organization, including contractors, Corps of Engineers, and representatives from public sector organizations. Contacts with personal are normally for planning, coordination, advising, and explaining work efforts and assignments. Contacts frequently involve influencing decisions and providing options.

Factor 8 Physical Demands Level 8-1 5 points

The work is primarily sedentary. Some work may require periods of walking, standing, bending, climbing, or driving a motor vehicle in activities such as inspections of installed equipment and visits to construction sites and industrial, commercial, agricultural, and other business establishments. Employees may carry light items such as books, instruments, and other similar materials. The work does not require any special physical effort.

Factor 9 Work Environment Level 9-1 5 points

The work is usually performed in an office setting. The work area normally involves everyday risks or discomforts requiring safety precautions typical of offices or meeting and training rooms. Work or inspection site visits may involve occasional exposure to construction activities, conditions in field sites or construction sites requiring normal safety precautions.

TOTAL POINTS: 2540

POINT RANGE: 2355 – 2750 = GS-11

Fair Labor Standards Act (FLSA) Determination = (EXEMPT)

- ☐ **1. Availability Pay Exemption** - (e.g., Criminal Investigators, U.S. Customs and Border Protection pilots who are also Law Enforcement Officers).
- ☐ **2. Foreign Exemption** - (Note: Puerto Rico and certain other locations do not qualify for this exemption – [See 5 CFR 551.104](#) for a list of Nonexempt areas.)
- ☐ **3. Executive Exemption:**
 - ☐ a. Exercises appropriate management responsibility (primary duty) over a recognized organizational unit with a continuing function, AND
 - ☐ b. Customarily and regularly directs 2 or more employees, AND
 - ☐ c. Has the authority to make or recommend hiring, firing, or other status-change decisions, when such recommendations have particular weight.

Note: Shared supervision or "matrix management" responsibility for a project team does not meet the above criteria. Limited "assistant manager" functions or "acting in the absence" of the manager does not meet the above criteria.

- ☒ **4. Professional Exemption:**
 - ☒ a. Professional work (primary duty)
 - ☒ b. Learned Professional, ([See 5 CFR, 551.208](#)) (Registered Nurses, Dental Hygienists, Physician's Assistants, Medical Technologists, Teachers, Attorneys, Physicians, Dentists, Podiatrists, Optometrists, Engineers, Architects, and Accountants at the independent level as just some of the typical examples of exempt professionals). Or
 - ☐ c. Creative Professional, ([See 5 CFR, 551.209](#)) (The primary duty requires invention and originality in a recognized artistic field (music, writing, etc.) and does not typically include newspapers or other media or work subject to control by the organization are just some examples of Creative Professionals). Or
 - ☐ d. Computer Employee, ([See 5 CFR, 551.210](#)) (must meet salary test and perform such duties as system analysis, program/system design, or

program/system testing, documentation, and modification). Computer manufacture or repair is excluded (non-exempt work).

☐ **5. Administrative Exemption:**

- ☐ a. Primary duty consistent with [5 CFR 551](#) (e.g.; non-manual work directly related to the management or general business operations of the employer or its customers), AND job duties require exercise of discretion & independent judgment.

☒ **FLSA Conclusion:**

☒ **Exempt**

☐ **Non Exempt**

FLSA Comments/Explanations:

Professional knowledge of, and skill in applying, a wide range of engineering theories, concepts, principles, standards and methodology.

CONDITIONS OF EMPLOYMENT & NOTES:

POSITION EVALUATION:

09/11/2021 - Reviewed PD upon recruitment and updated CL. Ivelisse Albarracin, Classification Specialist

06/25/2020 - Reviewed PD upon recruitment and updated new signature blocks IAW CHRA formatting guidance; made minor grammatical/administrative corrections. Debora Pierce, Classification Specialist

PD updated on 8/20/09 to comply with new 800 Classification Standard dtd Nov 08. js